

SECTION 715 TRAFFIC CONTROL DEVICES

715.01 Signs and Channelizing Devices. Meet the Detailed Drawings and MUTCD requirements.

Construction signs may be horizontally hinged at the midpoint of the sign face provided the hinge gap does not exceed 1/2-inch (13 mm) and the sign legend is legible.

715.02 PORTABLE SIGN SUPPORT ASSEMBLIES. Construct portable sign support assemblies from lightweight yielding material. Meet the following requirements:

- A. Use wood members with a maximum 16 square inch (10.3 m²) cross section for base construction and 8 square inch (5.2 m²) cross section for uprights and braces.
- B. Use tubular metal members with a maximum 9 square inch (5.8 m²) cross section.
- C. Use solid metal members with a maximum 1 square inch (645 mm²) cross section.

Portable signs may be trailer mounted if:

- 1. The weight of the trailer assembly does not exceed 250 pounds (113.5 kg);
- 2. The axle, frame, support assembly, and other structural members cannot exceed the dimensions of the portable sign support assembly;
- 3. The trailer tire outside diameter does not exceed 28-inches (715 mm). Automotive and equipment axle assemblies cannot be used for trailer-mounted sign supports.

715.03 ADVANCE WARNING ARROW PANELS. Furnish advance warning arrow panels (arrow boards) that meet the requirements of MUTCD, Section 6E-9. Each arrow board must have at least 25 lamps.

Use 36 x 72-inch (915 X 1,830 mm) Type "B" Arrow boards on striping units and shadow vehicles. Use Type "C", 48 x 96-inches (1,220 X 2,440 mm) for all other applications.

Equip the arrow board with a dimming device to automatically reduce the intensity of the flasher at night.

715.04 WARNING LIGHTS. Equip all vehicles, hauling units, and mobile construction equipment operating within the project limits and operating on roadways used by the traveling public with an amber flashing or strobe light visible from all directions for at least 0.4 mile (0.6 km) during daylight and clear weather conditions.

715.05 ADVANCE FLAGGER AHEAD WARNING SIGNS. Equip the W20-7a (advance flagger ahead) sign with two 12-inch (305 mm) amber signals, each mounted 36-inches (915 mm) from the center of the sign panel on a line 45 degrees above horizontal. Provide each lens with a 22 x 22-inch (560 X 560 mm) square backplate with a dull black finish and a 12-inch (305 mm) cut-away tunnel visor. Use 116 watt traffic signal light bulbs. Furnish 115/120 V.A.C. electrical current to the

flasher unit. Assure the signals flash alternately and continuously at a rate of not less than 50 nor more than 60 times per minute. The illuminated period of each flash must be not less than one-half nor more than two-thirds of the total flash cycle.

Meet Subsection 715.02 requirements for mounting portable sign support assemblies.